

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P61327WO00</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB2004/004707</b>	International filing date (day/month/year) <b>08/11/2004</b>	(Earliest) Priority Date (day/month/year) <b>07/11/2003</b>
Applicant  <b>SOLEXA LIMITED</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004707

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07H21/00 C12Q1/68 C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07H C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, PAJ, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/08183 A1 (LANE, MICHAEL, J; BENIGHT, ALBERT, S; FALDASZ, BRIAN, D) 6 March 1997 (1997-03-06) cited in the application page 9 - page 10	1,2
X	ZHAO XIAODONG ET AL: "Immobilization of oligodeoxyribonucleotides with multiple anchors to microchips" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 29, no. 4, 15 February 2001 (2001-02-15), pages 955-959, XP002175040 ISSN: 0305-1048	1-10,15, 18-20, 23-34, 37-39
Y	page 957 - page 958; figure 1 ----- -/--	3-7,9,10

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*A\* document member of the same patent family

Date of the actual completion of the international search

1 February 2005

Date of mailing of the international search report

28/02/2005

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## INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 174 879 A1 (INSTITUT PASTEUR; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE ; CENTR) 19 March 1986 (1986-03-19)	1,2,8, 11-13, 15-20, 23-31, 33-40
Y	page 4 - page 17	3-7,9, 10,14
X	US 2003/022207 A1 (BALASUBRAMANIAN SHANKAR ET AL) 30 January 2003 (2003-01-30) page 5, paragraph 53	21,22
Y	WO 01/92284 A1 (AMERSHAM PHARMACIA BIOTECH UK LIMITED; ODEDRA, RAJ; SIMMONDS, ADRIAN;) 6 December 2001 (2001-12-06) page 12, line 23 - line 25; claim 12	14
A	US 4 659 774 A (WEBB ET AL) 21 April 1987 (1987-04-21) the whole document	1-40
A	WO 02/061126 A2 (SOLEXA LTD; BARNES, COLIN; BALASUBRAMANIAN, SHANKAR; KLENERMAN, DAVID;) 8 August 2002 (2002-08-08) page 6, line 22 - line 24; example 1	1-40
A	WO 01/16152 A2 (AMERSHAM PHARMACIA BIOTECH, INC) 8 March 2001 (2001-03-08) the whole document	1-40
A	FANG X ET AL: "Designing a novel molecular beacon for surface-immobilized DNA hybridization studies" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 31 MAR 1999 UNITED STATES, vol. 121, no. 12, 31 March 1999 (1999-03-31), pages 2921-2922, XP002315845 ISSN: 0002-7863 the whole document	1-40
A	BROUDE N E: "Stem-loop oligonucleotides: a robust tool for molecular biology and biotechnology" TRENDS IN BIOTECHNOLOGY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 20, no. 6, 1 June 2002 (2002-06-01), pages 249-256, XP004352763 ISSN: 0167-7799 the whole document	1-40

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International Application No

PCT/GB2004/004707

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PIRRUNG M C ET AL: "Novel reagents and procedures for immobilization of DNA on glass microchips for primer extension" LANGMUIR, ACS, WASHINGTON, DC, US, vol. 16, 2000, pages 2185-2191, XP002158761 ISSN: 0743-7463 the whole document	1-40
A	RICCELLI P V ET AL: "Hybridization of single-stranded DNA targets to immobilized complementary DNA probes: comparison of hairpin versus linear capture probes" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 29, no. 4, 15 February 2001 (2001-02-15), pages 996-1004, XP002282478 ISSN: 0305-1048 the whole document	1-40

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004707

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9708183	A1	06-03-1997	US 5770365 A	23-06-1998
			AU 701632 B2	04-02-1999
			AU 6854596 A	19-03-1997
			CA 2227950 A1	06-03-1997
			EP 0861262 A1	02-09-1998
			JP 2001517068 T	02-10-2001
EP 0174879	A1	19-03-1986	FR 2567523 A1	17-01-1986
			AT 56724 T	15-10-1990
			DE 3579776 D1	25-10-1990
			DK 318885 A	13-01-1986
			ES 8604259 A1	01-06-1986
			GR 851739 A1	26-11-1985
			JP 61130305 A	18-06-1986
			PT 80807 A , B	01-08-1985
US 2003022207	A1	30-01-2003	AU 770831 B2	04-03-2004
			AU 5178799 A	21-02-2000
			CA 2339121 A1	10-02-2000
			EP 1105529 A1	13-06-2001
			WO 0006770 A1	10-02-2000
			JP 2002521064 T	16-07-2002
			US 2004106110 A1	03-06-2004
			US 2004091903 A1	13-05-2004
			US 2003186227 A1	02-10-2003
			EP 1356120 A2	29-10-2003
			GB 2389904 A	24-12-2003
			EP 1356119 A2	29-10-2003
			WO 02061126 A2	08-08-2002
			WO 02061127 A2	08-08-2002
			JP 2004524525 T	12-08-2004
WO 0192284	A1	06-12-2001	AU 6249501 A	11-12-2001
			CA 2408143 A1	06-12-2001
			EP 1287012 A1	05-03-2003
			JP 2003535102 T	25-11-2003
			US 2003194722 A1	16-10-2003
US 4659774	A	21-04-1987	NONE	
WO 02061126	A2	08-08-2002	EP 1356119 A2	29-10-2003
			EP 1356120 A2	29-10-2003
			WO 02061127 A2	08-08-2002
			GB 2389904 A	24-12-2003
			JP 2004524525 T	12-08-2004
			US 2003022207 A1	30-01-2003
			US 2004106110 A1	03-06-2004
			US 2004091903 A1	13-05-2004
WO 0116152	A2	08-03-2001	US 6528319 B1	04-03-2003
			AT 280773 T	15-11-2004
			AU 6800400 A	26-03-2001
			CA 2381761 A1	08-03-2001
			DE 60015368 D1	02-12-2004
			EP 1210356 A2	05-06-2002